

Cat. No. 21-1840
OWNER'S MANUAL

Please read before using this equipment.

**Personal FM
Radio**

- n 14 Channels
- n Call Button
- n Automatic Squelch
- n Monitor
- n Headset Jack for Handsfree Communication
- n Transmit/Battery Indicator



RadioShack®



INTRODUCTION

Your RadioShack Personal FM Radio is a light-weight, palm-sized radio that you can clip to your belt and carry almost anywhere. You can use it to talk with another person who has an FRS radio set to the same *frequency* (14-channel selectable) as your radio.

Your radio has *auto-squelch*, which means you won't hear anything on the channel unless someone is transmitting nearby on the same channel. But, you can turn off auto-squelch to hear weaker, distant transmissions (see Page 11).

Also, if you do not transmit for over 30 seconds, the radio automatically switches to a power save mode and returns to full power when it receives a transmission or you press any key.

We recommend you record your radio's serial number here. The number is on the radio's back panel.

Serial Number: _____

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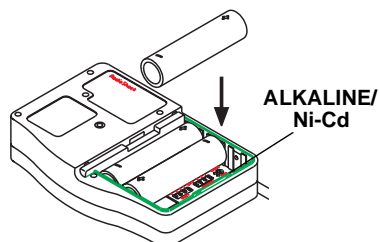
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PREPARATION

INSTALLING BATTERIES

Your radio uses three AA batteries for power. For the longest life, we recommend alkaline batteries (available from your local RadioShack store). You can also use rechargeable nickel-cadmium batteries (such as Cat. No. 23-325) and recharge them in the radio using an optional AC adapter (such as Cat. No. 273-1663).

Follow these steps to install batteries.



1. Turn the radio off, remove the screw from the belt clip, then slide off the battery compartment cover.

2. Set the switch inside the compartment to **ALKA-LINE** (for alkaline batteries) or **Ni-Cd** (for rechargeable nickel-cadmium batteries).

Caution: Do not use alkaline batteries with the switch set to **Ni-Cd**.

3. Install the batteries, matching the polarity symbols (+ and -) inside the compartment.
4. Replace the cover.

Caution: Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

The radio's range decreases as the battery power decreases. To ensure maximum range, keep fresh batteries in the radio.

When the TX/LO BATT (Transmit/Low Battery) indicator flashes when you are not holding down **PTT** or pressing **CALL**, replace the batteries.

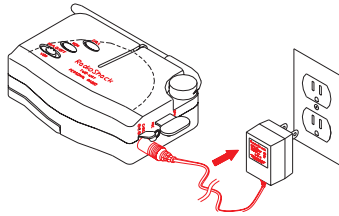
Recharging Nickel-Cadmium Batteries

If you use rechargeable nickel-cadmium batteries, you can recharge them in the radio using an optional AC adapter (such as Cat. No. 273-1663). Be sure the switch inside the battery compartment is set to **Ni-Cd**.

Caution: You must use an AC adapter that supplies 6 volts DC and delivers at least 700 mA. Its center tip must be set to positive and its plug must fit the radio's **CHRG** jack. The recommended adapter meets these specifications. Using an adapter that does not meet these specifications could damage the radio or the adapter.

1. Attach the adapter's 3.4 mm outer diameter/1.3 mm inner diameter barrel plug to the adapter and set **TIP** to positive (+).

2. Connect the charger's barrel plug to the radio's **CHRG** jack and plug its other end into a standard AC outlet

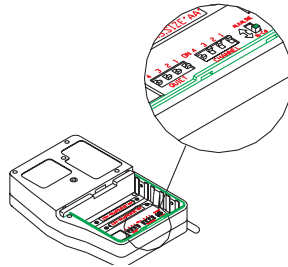


3. Complete charging takes about 15 hours. When charging is complete, unplug the AC adapter from the AC outlet and disconnect it from the **CHRG** jack.

SETTING THE QUIET CODE AND CHANNEL

Use the 4-digit DIP switches inside the battery compartment to set the quiet code and channel. The left

array of switches controls the quiet code, while the right array controls the channel.



Note: You can only communicate with another radio which uses the same channel and Quiet code as your radio.

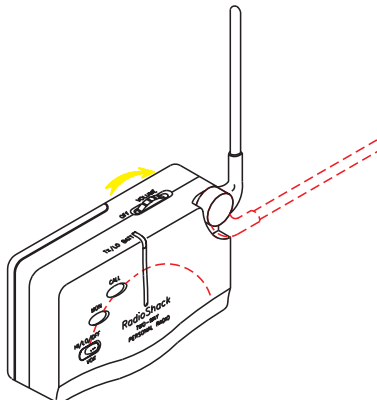
QUIET Code	Frequency (Hz)	Dip Switch Setting
	without QUIET	0000
12	100.0	0001
13	103.5	0010
14	107.2	0011

QUIET Code	Frequency (Hz)	Dip Switch Setting
15	110/9	0100
16	114.8	0101
17	118.8	0110
18	123.0	0001
19	127.3	0010
20	131.8	0011
21	136.5	0100
22	141.3	0101
23	146.2	0110
24	151.4	0111
25	156.7	1000
26	162.2	1001

Channel	Frequency (MHz)	Dip Switch Setting
1	462.5625	0000
1	462.5625	0001

Channel	Frequency (MHz)	Dip Switch Setting
2	462.5875	0010
3	462.6125	0011
4	462.6375	0100
5	462.6625	0101
6	462.6875	0110
7	462.7125	0111
8	467.5625	1000
9	467.5875	1001
10	467.6125	1010
11	467.6375	1011
12	467.6625	1100
13	467.6875	1101
14	467.7125	1110
14	467.7125	1111

USING THE RADIO



Rotate **VOLUME** to turn the radio on and off and adjust the volume. A tone sounds when you turn it on.

To talk, hold down the headset's **PTT** (push to talk) button. Speak into the microphone when the TX/LO BATT indicator lights. When you finish speaking, release **PTT**.

The TX/LO BATT indicator lights when you transmit and flashes when the battery is low.

To hear everything happening on a channel (including weak transmissions), hold down **MON**. Release **MON** to turn auto-squelch back on.

To send a page, press **CALL**. The TX/LO BATT indicator lights and a tone sounds on all radios within range that are tuned to the same frequency as your radio.

Important: The FCC does not allow you to send a continuous tone for more than 15 seconds at a time on FRS frequencies. Do not hold down **CALL** for longer than 15 seconds.

For hands-free operation, connect the supplied headset's $\frac{3}{32}$ -inch mini plug and $\frac{1}{8}$ -inch plug to the receiver's **MIC/SPK** jacks. Set **VOX** to **HI** (for normal conditions) or **LO** (if you are in a noisy environment). The radio automatically transmits when you speak and is set to receive when you are not speaking.

CARE AND MAINTENANCE

To enjoy your Personal FM Radio for a long time:

- Keep the radio dry. If it gets wet, wipe it dry immediately.
- Use and store the radio only in normal temperature environments.
- Handle the radio gently and carefully. Don't drop it.
- Keep the radio away from dust and dirt.
- Wipe the radio with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the radio's internal components can cause a malfunction and invalidate its warranty. If your radio is not performing as it should, take it to your local RadioShack store for assistance.

FCC INFORMATION

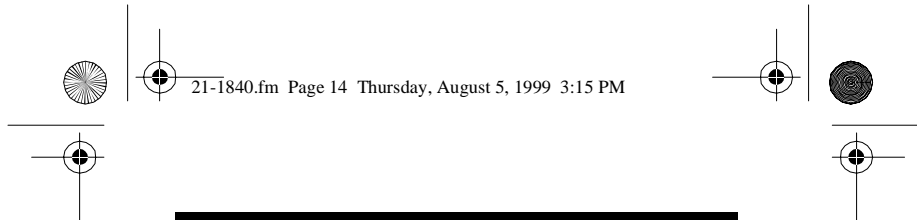
Important: Do not open your radio to make any internal adjustments. Your radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the radio to exceed those limitations. Any adjustments made to your radio must be made by a qualified technician using the proper test equipment. To be safe and sure:

- Never open your radio's case.
- Never change or replace anything in your radio except the batteries.

Your radio might cause TV or radio interference even when it is operating properly. To determine whether your radio is causing the interference, turn it off. If the interference goes away, your radio is causing it. Try to eliminate the interference by:

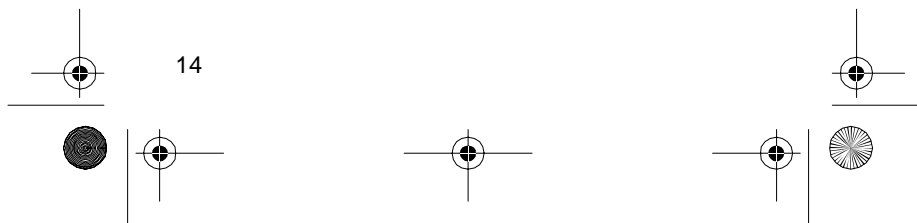
- Moving your radio away from the receiver
- Calling your local RadioShack store for help

Using your radio as described in this manual exposes you to RF energy well below the FCC's recommended limits.



This device complies with Part 15 of the *FCC Rules*. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Modifying or tampering with the radio's internal components can cause a malfunction and might invalidate the radio's warranty and void your FCC authorization to operate it. If your radio is not performing as it should, take it to your local RadioShack store for assistance.



SPECIFICATIONS

Transmitter

RF Output Power 200 mW ERP

General

Number of Channels 14

Operating Temperature Range °C/°F

Weight with Batteries lbs/kg

Dimensions (HWD) $1\frac{3}{16}$ × $2\frac{3}{8}$ × $3\frac{15}{16}$ in
(100 × 65 × 30 mm)

Number, Size, and Type of Batteries 3 AA

Battery Life:

Alkaline 24 Hours (2500 mAh)

Ni-Cd 11 Hours (600 mAh)

External Jack

Microphone Impedance

Speaker Impedance

Specifications are typical; individual units might vary.

**Specifications are subject to change and improvement.
Limited Ninety-Day Warranty**

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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